

How Strong is It?

Nylon Rope/Accessory Cord	
Diameter	Breaking Strength
6 mm (1/4")	6.8 kN (1550 lb)
7 mm	9.3 kN (2100 lb)
8 mm (5/16")	14.0 kN (3150 lb)
9 mm (3/8")	16.2 kN (3650 lb)
11 mm (7/16")	30 kN (7000 lb)
12.7 mm (1/2")	40 kN (9000 lb)

Note: Ignores effect of knots, wear, moisture, etc.

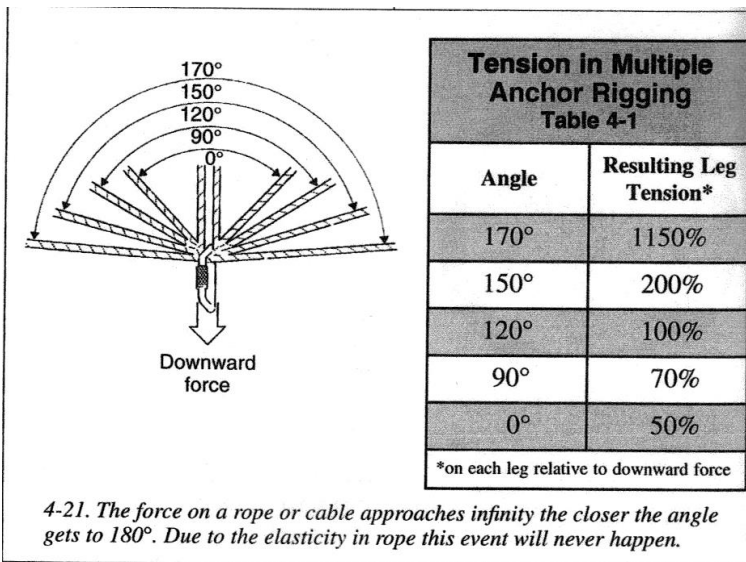
Webbing	
Nylon (1")	3700-4000 lbs
Dyneema (12 mm)	5000 lbs
3/8" Bolts in 2000 psi concrete	
Pull-out	2900-5200 lbs
Shear	3000-7000 lbs

Black Diamond Wired Stopper Nuts	
Size	Strength
1 or 2	2 kN (450 lbs)
3	5 kN (1100 lbs)
4 or 5	6 kN (1250 lbs)
6 through 13	10 kN (2250 lbs)

Black Diamond Camalot Cams	
Size	Strength
0.3	8 kN (1800 lbs)
0.4	10 kN (2250 lbs)
0.5	12 kN (2700 lbs)
0.75 through 6	14 kN (3150 lbs)

Black Diamond Wired Hexcentrics	
Size	Strength
1 or 2 or 3	6 kN (1250 lbs)
4 through 11	10 kN (2250 lbs)

Note: Assumes ideal hard rock, ideal placement, etc.



Above: Effect of angle between anchor legs on the leg load.

Right: Effect of angle on the force on a rebelay

