LEXCO

Wire Rope Diameter & Construction Design

Minimum Bend Recommended to Maximize
Wire Rope Life & Strength for Cycling Applications

Wire Rope Constructions 3×7, 6×7, 6×42, 7×3, and 7×7		
Dia.	Min. Recommended Drum/Pulley Tread Dia.	Approx. Bend Radius
0.009"	3/8"	3/16"
0.014"	5/8"	5/16"
0.018"	13/16"	13/32"
0.024"	1"	1/2"
0.027"	1 5/32"	37/64"
0.030"	1 9/32"	41/64"
1/32"	1 5/16"	21/32"
0.032"	1 1 1/32"	43/64"
0.035"	1 1/2"	3/4"
0.036"	1 17/32"	49/64"
3/64"	2"	1"
1/16"	2 5/8"	1 5/16"
5/64"	3 9/32"	1 41/64"
3/32"	3 15/16"	1 31/32"
1/8"	5 1/4"	2 5/8"
5/32"	6 9/16"	3 9/32"
3/16"	7 7/8"	3 15/16"
1/4"	10 1/2"	5 1/4"
5/16"	13 1/8"	6 9/16"
3/8"	15 3/4"	7 7/8"

Wire Rope Constructions 6×19, 7×19, and 19×7		
Dia.	Min. Recommended Drum/Pulley Tread Dia.	Approx. Bend Radius
0.024"	19/32"	19/64
0.027"	21/32"	21/64
0.032"	25/32"	25/64
0.036"	7/8"	7/16
0.038"	15/16"	15/32
3/64"	1 1/8"	9/16
1/16"	1 1/2"	3/4
3/32"	2 1/4"	1 1/8
1/8"	3"	1 1/2
5/32"	3 3/4"	1 7/8
3/16"	4 1/2"	2 1/4
7/32"	5 1/4"	2 5/8
1/4"	6"	3
5/16"	7 1/2"	3 3/4
3/8"	9"	4 1/2
7/16"	10 1/2"	5 1/4
1/2"	12"	6
9/16"	13 1/2"	6 3/4
5/8"	15"	7 1/2

Wire Rope Constructions 6×37 and 8×19		
Dia.	Min. Recommended Drum/Pulley Tread Dia.	Approx. Bend Radius
3/16"	2 1/4"	1 1/8"
1/4"	3"	1 1/2"
5/16"	3 3/4"	1 7/8"
3/8"	4 1/2"	2 1/4"
7/16"	5 1/4"	2 5/8"
1/2"	6"	3"
9/16"	6 3/4"	3 3/8"
5/8"	7 1/2"	3 3/4"