

## Recommended Bend Radius

To obtain reasonable life from your rope, you must choose the proper diameter rope for your application. In general, the larger the size of the drum or pulley with respect to the wire diameter, the longer the service life.

The tables below provide the minimum recommended pulley diameter. The bend radius of the rope is approximately half of the recommended pulley tread diameter.

If you don't see what you're looking for here, contact us ([sales@loosco.com](mailto:sales@loosco.com)) and one of our wire rope experts will be able to assist you.

Rope Constructions 3x7, 6x7, 6x42, 7x3, and 7x7		
Rope Diameter	Min. Recommended Pulley Diameter	Approx. Bend Radius
0.009"	3/8"	3/16"
0.014"	5/8"	5/16"
0.024"	1"	1/2"
0.027"	1 5/32"	37/64"
0.030"	1 9/32"	41/64"
0.031"	1 5/16"	21/32"
0.032"	1 11/32"	43/64"
0.035"	1 1/2"	3/4"
0.036"	1 17/32"	49/64"
0.047"	2"	1"
0.063"	2 5/8"	1 5/16"
0.075"	3 9/32"	1 41/64"
0.094"	3 15/16"	1 31/32"
0.125"	5 1/4"	2 5/8"
0.156"	6 9/16"	3 9/32"
0.188"	7 7/8"	3 15/16"
0.250"	10 1/2"	5 1/4"
.0313"	13 1/8"	6 9/16"
0.375"	15 3/4"	7 7/8"

Rope Constructions 6x19, 7x19, and 19x7		
Rope Diameter	Min. Recommended Pulley Diameter	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"
0.047"	1 1/8"	9/16"
0.063"	1 1/2"	3/4"
0.094"	2 1/4"	1 1/8"
0.125"	3"	1 1/2"
0.156"	3 3/4"	1 7/8"
0.178"	4 1/2"	2 1/4"
0.219"	5 1/4"	2 5/8"
0.250"	6"	3"
0.313"	7 1/2"	3 3/4"
0.375"	9"	4 1/2"
0.438"	10 1/2"	5 1/4"
0.500"	12"	6"
0.563"	13 1/2"	6 3/4"
0.625"	15"	7 1/2"

Rope Constructions 6x37 and 8x19		
Rope Diameter	Min. Recommended Pulley Diameter	Approx. Bend Radius
0.188"	2 1/4"	1 1/8"
0.250"	3"	1 1/2"
0.313"	3 3/4"	1 7/8"
0.375"	4 1/2"	2 1/4"
0.438"	5 1/4"	2 5/8"
0.500"	6"	3"
0.563"	6 3/4"	3 3/8"
0.625"	7 1/2"	3 3/4"

