

# SOFT ROPE

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## **Specifications — Cordage**

### **3-Strand Rope**

- Spun Nylon
- Spun Polyester
- Multiline II
- Yellow Polypropylene

### **Polypropylene Rope Slings**

- Eye and Eye Slings
- Endless Slings



# SOFT ROPE

Amick Associates, Inc.

## Specifications — Cordage

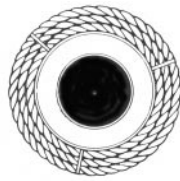
version #2-04

### Specifications — Cordage

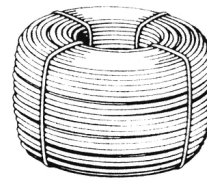
Amick Associates stocks various sizes of the following soft ropes:

- Manila
- Polyester
- Esterlene 9000

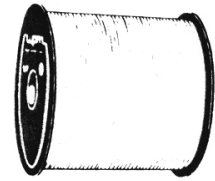
Amick Associates can fabricate slings out of your synthetic rope.



Coils



Large Coils



Spools

Table 14-1. Specifications — Cordage

Nominal Size		Manila			Nylon			Polypropylene		
Diameter	Circumference	Linear Density (lbs./100 ft.)	Minimum Tensile Strength (lbs.)	Maximum Working Load (lbs.) <sup>①</sup>	Linear Density (lbs./100 ft.)	Minimum Tensile Strength (lbs.)	Maximum Working Load (lbs.) <sup>①</sup>	Linear Density (lbs./100 ft.)	Minimum Tensile Strength (lbs.)	Maximum Working Load (lbs.) <sup>①</sup>
3/16	5/8	1.50	406	41	1.00	900	75	.70	720	72
1/4	3/4	2.00	540	54	1.50	1,490	124	1.20	1,130	113
5/16	1	2.90	900	90	2.50	2,300	192	1.80	1,710	171
3/8	1-1/8	4.10	1,220	122	3.50	3,340	278	2.80	2,440	244
7/16	1-1/4	5.25	1,580	176	5.00	4,500	410	3.80	3,160	352
1/2	1-1/2	7.50	2,380	264	6.50	5,750	525	4.70	3,780	420
9/16	1-3/4	10.4	3,100	388	8.15	7,200	720	6.10	4,600	575
5/8	2	13.3	3,960	496	10.5	9,350	935	7.50	5,600	700
3/4	2-1/4	16.7	4,860	695	14.5	12,800	1,420	10.7	7,650	1,090
13/16	2-1/2	19.5	5,850	835	17.0	15,300	1,700	12.7	8,900	1,270
7/8	2-3/4	22.4	6,950	995	20.0	18,000	2,000	15.0	10,400	1,490
1	3	27.0	8,100	1,160	26.4	22,600	2,520	18.0	12,600	1,800
1-1/16	3-1/4	31.2	9,450	1,350	29.0	26,000	2,880	20.4	14,400	2,060
1-1/8	3-1/2	36.0	10,800	1,540	34.0	29,800	3,320	23.8	16,500	2,360
1-1/4	3-3/4	41.6	12,200	1,740	40.0	33,800	3,760	27.0	18,900	2,700
1-5/16	4	47.8	13,500	1,930	45.0	38,800	4,320	30.4	21,200	3,020
1-1/2	4-1/2	60.0	16,700	2,380	55.0	47,800	5,320	38.4	26,800	3,820
1-5/8	5	74.5	20,200	2,880	66.5	58,500	6,500	47.6	32,400	4,620
1-3/4	5-1/2	89.5	23,800	3,400	83.0	70,000	7,800	59.0	38,800	5,550
2	6	108.0	28,000	4,000	95.0	83,000	9,200	69.0	46,800	6,700
2-1/8	6-1/2	125.0	32,400	4,620	109.0	95,500	10,600	80.0	55,000	7,850
2-1/4	7	146.0	37,000	5,300	129.0	113,000	12,600	92.0	62,000	8,850
2-1/2	7-1/2	167.0	41,800	5,950	149.0	126,000	14,000	107.0	72,000	10,300
2-5/8	8	191.0	46,800	6,700	168.0	146,000	16,200	120.0	81,000	11,600
2-7/8	8-1/2	215.0	52,000	7,450	189.0	162,000	18,000	137.0	91,000	13,000
3	9	242.0	57,500	8,200	210.0	180,000	20,000	153.0	103,000	14,700
3-1/4	10	298.0	69,500	9,950	264.0	226,000	25,200	190.0	123,000	17,600
3-5/8	11	366.0	82,000	11,700	312.0	270,000	30,000	232.0	146,000	20,800
4	12	434.0	94,500	13,500	380.0	324,000	36,000	276.0	171,000	24,000
4-1/4	13	—	—	—	445.0	380,000	42,200	325.0	202,000	28,900
4-1/2	14	—	—	—	520.0	441,000	49,000	375.0	234,000	33,400
5	15	—	—	—	590.0	507,000	56,300	430.0	268,000	38,300
5-1/4	16	—	—	—	675.0	572,000	63,600	490.0	302,000	43,100
5-5/8	17	—	—	—	765.0	635,000	70,600	555.0	329,000	47,000
6	18	—	—	—	860.0	698,000	77,600	625.0	360,000	51,400

① Maximum Working Loads are for rope in good condition with appropriate splices in non-critical applications, and under normal service conditions. Working loads should be reduced where life, limb, valuable property are involved, or for exceptional service conditions such as shock loads, sustained loads, etc.

**Note:** Amick splices all types of ropes.

## 3-Strand Rope

### Spun Nylon (Price Code: A)

New England Ropes 3-Strand Spun Nylon rope is manufactured from staple/spun nylon, resulting in a soft, easy to grip surface — used in safety lines and animal leads.

**Table 14-2. Specifications — Spun Nylon**

Diameter (in.)	Diameter (mm)	Weight (lbs./100 ft.)	Spool Length (ft.)	Tensile Strength	White Code	White Spool Price
3/8	9	3.3	600	2,800	8130-12	\$122.72
9/16	14	7.0	600	6,400	8130-18	\$212.16
5/8	16	8.9	600	7,800	8130-20	\$249.60

### Spun Polyester a.k.a. Spun Classic (Price Code: A)

New England Ropes 3-Strand Spun Polyester rope is manufactured from staple/spun polyester. Result is a soft easy to grip rope with a relatively low elongation.

**Table 14-3. Specifications — Spun Polyester a.k.a. Spun Classic**

Diameter (in.)	Diameter (mm)	Weight (lbs./100 ft.)	Spool Length (ft.)	Tensile Strength	White Code	White Spool Price
3/16	5	1.2	1200	700	7230-06	\$94.00
1/4	6	2.0	1200	1,200	7230-08	\$138.00
5/16	8	2.7	600	1,800	7230-10	\$99.00
3/8	9	3.8	600	2,500	7230-12	\$141.00
7/16	11	5.1	600	3,300	7230-14	\$196.00
1/2	12	7.0	600	3,800	7230-16	\$238.00
9/16	14	8.3	600	5,400	7230-18	\$318.00
5/8	16	10.3	600	6,000	7230-20	\$370.00
3/4	19	14.8	600	7,500	7230-24	\$528.00

### Multiline II (Price Code: A)

Multiline II is a 3-Strand composite rope, its unique construction combines filament and staple/spun polyester cover yarns wrapped around a polyolefin core (smaller than 1/2" diameter — does not have polyolefin core). Multiline II provides the greatest durability, highest strength, lighter weight, and consistent supple feel over time of any similar composite rope.

**Table 14-4. Specifications — Multiline II**

Diameter (in.)	Diameter (mm)	Weight (lbs./100 ft.)	Spool Length (ft.)	Tensile Strength	White Code	White Spool Price
5/16	8	2.5	600	2,300	7300-10	\$68.64
3/8	9	3.6	600	3,200	7300-12	\$91.52
7/16	11	5.0	600	4,100	7300-14	\$127.92
1/2	12	6.2	600	5,800	7300-16	\$152.88
5/8	16	9.5	600	8,200	7300-20	\$222.56
3/4	19	13.7	600	10,500	7300-24	\$310.96
7/8	22	18.0	600	15,500	7300-28	\$436.80
1	24	20.6	600	18,700	7300-32	\$490.88
1-1/8	28	30.7	600	26,000	7300-36	\$531.30

### Yellow Polypropylene (Price Code: B)

New England Ropes 3-Strand Polypropylene rope is a light and inexpensive rope that floats indefinitely. Suitable for non-critical applications. Will deteriorate in sunlight.

**Table 14-5. Specifications — Yellow Polypropylene**

Diameter (in.)	Diameter (mm)	Weight (lbs./100 ft.)	Spool Length (ft.)	Tensile Strength	Yellow Code	Yellow Spool Price
3/16	5	0.7	1200	850	7905-06	\$42.00
1/4	6	1.2	1200	1,350	7905-08	\$64.00
5/16	8	1.8	600	2,050	7905-10	\$39.00
3/8	9	2.8	600	2,900	7905-12	\$57.00
7/16	11	3.8	600	3,800	7905-14	\$76.00
1/2	12	4.5	600	4,700	7905-16	\$92.00
5/8	16	7.5	600	7,000	7905-20	\$146.00
3/4	19	10.7	600	9,400	7905-24	\$198.00

# SOFT ROPE

Amick Associates, Inc.

## Polypropylene Rope Slings

version #2-04

### Polypropylene Rope Slings

#### Eye and Eye Slings

Table 14-6. Working Load Limits — Eye and Eye Slings

Rope Diameter Nominal (in.)	Nominal Weight per 100 ft. (lbs.)	Vertical Hitch	Choker Hitch	Basket Hitch			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
				0°	30°	45°	60°
1/2	4.7	645	325	1,290	1,120	910	645
9/16	6.1	780	390	1,560	1,350	1,100	780
5/8	7.5	950	475	1,900	1,650	1,340	950
3/4	10.7	1,300	650	2,600	2,250	1,840	1,300
13/16	12.7	1,520	760	3,040	2,630	2,150	1,520
7/8	15.0	1,760	880	3,520	3,050	2,490	1,760
1	18.0	2,140	1,070	4,280	3,700	3,030	2,140
1-1/16	20.4	2,450	1,230	4,900	4,240	3,460	2,450
1-1/8	23.7	2,800	1,400	5,600	4,850	3,960	2,800
1-1/4	27.0	3,210	1,610	6,420	5,560	4,540	3,210
1-5/16	30.5	3,600	1,800	7,200	6,240	5,090	3,600
1-1/2	38.5	4,540	2,270	9,080	7,860	6,420	4,540
1-5/8	47.5	5,510	2,760	11,000	9,540	7,790	5,510
1-3/4	57.0	6,580	3,290	13,200	11,400	9,300	6,580
2	69.0	7,960	3,980	15,900	13,800	11,300	7,960
2-1/8	80.0	9,330	4,670	18,700	16,200	13,200	9,330
2-1/4	92.0	10,600	5,300	21,200	18,400	15,000	10,600
2-1/2	107.0	12,200	6,100	24,400	21,100	17,300	12,200
2-5/8	120.0	13,800	6,900	27,600	23,900	19,600	13,800

#### Endless Slings

Table 14-7. Working Load Limits — Endless Slings

Rope Diameter Nominal (in.)	Nominal Weight per 100 ft. (lbs.)	Vertical Hitch	Choker Hitch	Basket Hitch			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
				0°	30°	45°	60°
1/2	4.7	1,160	580	2,320	2,010	1,640	1,160
9/16	6.1	1,400	700	2,810	2,430	1,990	1,400
5/8	7.5	1,710	855	3,420	2,960	2,420	1,710
3/4	10.7	2,340	1,170	4,680	4,050	3,310	2,340
13/16	12.7	2,740	1,370	5,470	4,740	3,870	2,740
7/8	15.0	3,170	1,580	6,340	5,490	4,480	3,170
1	18.0	3,850	1,930	7,700	6,670	5,450	3,860
1-1/16	20.4	4,410	2,210	8,820	7,640	6,240	4,410
1-1/8	23.7	5,040	2,520	10,100	8,730	7,130	5,040
1-1/4	27.0	5,780	2,890	11,600	10,000	8,170	5,780
1-5/16	30.5	6,480	3,240	13,000	11,200	9,170	6,480
1-1/2	38.5	8,170	4,090	16,300	14,200	11,600	8,170
1-5/8	47.5	9,920	4,960	19,800	17,200	14,000	9,920
1-3/4	57.0	11,800	5,920	23,700	20,500	16,800	11,800
2	69.0	14,300	7,160	28,700	24,800	20,300	14,300
2-1/8	80.0	16,800	8,400	33,600	29,100	23,800	16,800
2-1/4	92.0	19,100	9,540	38,200	33,100	27,000	19,100
2-1/2	107.0	22,000	11,000	43,900	38,000	31,100	22,000
2-5/8	120.0	24,800	12,400	49,700	43,000	35,100	24,800