

FIBER ROPES / CORDAGE

There are two types of fibers used in the construction of ropes and twines, natural and synthetic. The most common natural fibers used are Manila, Sisal, Jute, and cotton, while synthetic fibers such as Polypropylene, Polyethylene, Nylon, and Polyester have become the most popular in today's marketplace.

Some basic factors in the selection of the right rope for a particular application are:

- Strength**
- Abrasion resistance**
- Melting point**
- Does the rope float or sink in water (marine applications)**
- Wet strength versus dry strength**
- Elasticity (shock absorbing qualities)**
- Resistance to sunlight (U.V.)**
- Resistance to rot**

Characteristics of natural and synthetic fibers:

- Manila - Excellent heat and U.V. resistance**
- Sisal - Makes a good tying twine**
- Jute - Weak / used for tying twine**
- Cotton - Soft and easy to handle**
- Polypropylene & Polyethylene - Fibers that float / economical**
- Polyester - Very strong / excellent abrasion resistance / low stretch**
- Nylon - High elasticity and shock absorbing qualities / good U.V. resistance**

Coordinated Wire Rope stocks a large variety of special ropes primarily for the marine transportation and marine construction industries. ICE BLUE™ COMBO, POLY/DAC™, BLUE STEEL™, 8 BRAID BLUE STEEL™ POLY, SPECTRA® and PLASMA® for the marine industry. See Section 14 for Load Securement ropes.

General Purpose

POLYPLUS™ - POLY/DAC™ Blended Polyester Rope

Excellent durable combination rope. Polyester over polypropylene core, great UV resistant. Good strength and lower stretch.



| PolyPlus Item No. | Poly/Dac Item No. | Diameter | Length | Approx. Wt. |
|-------------------|-------------------|----------|--------|-------------|
| 755005 | 325005 | 1/4" | 600' | 10 lbs |
| 755010 | 325010 | 1/4" | 1200' | 20 lbs |
| 755015 | 325015 | 5/16" | 600' | 15 lbs |
| 755020 | 325020 | 5/16" | 1200' | 30 lbs |
| 755025 | 325025 | 3/8" | 600' | 22 lbs |
| 755030 | 325030 | 3/8" | 1200' | 44 lbs |
| 755040 | 325035 | 7/16" | 600' | 29 lbs |
| 755041 | 325040 | 7/16" | 1200' | 58 lbs |
| 755045 | 325045 | 1/2" | 600' | 37 lbs |
| 755050 | 325050 | 1/2" | 1200' | 74 lbs |
| 755055 | 325060 | 9/16" | 600' | 47 lbs |
| 755060 | | 9/16" | 1200' | 94 lbs |
| 755065 | 325065 | 5/8" | 600' | 57 lbs |
| 755070 | 325070 | 5/8" | 1200' | 114 lbs |
| 755100 | 325100 | 3/4" | 600' | 81 lbs |
| 755105 | 325105 | 3/4" | 1200' | 162 lbs |
| 755110 | 325110 | 7/8" | 600' | 108 lbs |
| 755115 | | 7/8" | 1200' | 216 lbs |
| 755120 | 325120 | 1" | 600' | 130 lbs |
| 755125 | 325122 | 1" | 1200' | 260 lbs |
| 755130 | 325130 | 1-1/8" | 600' | 163 lbs |
| 755140 | 325140 | 1-1/4" | 600' | 200 lbs |
| 755150 | 325147 | 1-1/2" | 600' | 282 lbs |
| 755160 | 325157 | 1-5/8" | 600' | 330 lbs |
| 755165 | 325167 | 1-3/4" | 600' | 372 lbs |
| 755200 | 325173 | 2" | 600' | 486 lbs |
| 755205 | 325182 | 2-1/4" | 600' | 606 lbs |
| 755210 | 325187 | 2-1/2" | 600' | 744 lbs |
| | 325191 | 2-5/8" | 600' | 840 lbs |
| | 325197 | 3" | 600' | 1074 lbs |



ICE BLUE™ Combo

Ideal for very high strength mooring lines, head ropes, net ropes or any application where you need floatability and durability of a combination rope. Made from high strength BLUE STEEL™ and polyester fibers.

| Item No. | Reel/Coil | Diameter | Length | Average Break | Approx. Weight |
|-------------------|-----------|----------|--------|---------------|----------------|
| 403304 - 3 Strand | Reel | 5/8" | | 11,310 lbs | 63 lbs |
| 403305 - 3 Strand | Reel | 3/4" | | 14,700 lbs | 84 lbs |
| 403310 - 3 Strand | Reel | 1" | | 24,700 lbs | 146 lbs |
| 403314 - 3 Strand | Reel | 1-1/8" | | 32,500 lbs | 192 lbs |
| 403315 - 3 Strand | Coil | 1-1/4" | | 39,600 lbs | 222 lbs |
| 403320 - 3 Strand | Coil | 1-1/2" | | 54,900 lbs | 336 lbs |
| 403323 - 3 Strand | Reel | 1-3/4" | | 76,800 lbs | 470 lbs |
| 403331 - 3 Strand | Reel | 2" | | 95,900 lbs | 591 lbs |
| 403335 - 3 Strand | Reel | 2-1/4" | | 130,200 lbs | 802 lbs |
| 403340 - 3 Strand | Coil | 2-1/2" | | 145,900 lbs | 898 lbs |
| 403341 - 3 Strand | Reel | 2-1/2" | | 145,900 lbs | 898 lbs |
| 403350 - 3 Strand | Coil | 3" | | 206,600 lbs | 1272 lbs |
| 403420 - 8 Braid | Coil | 1-1/2" | | 64,000 lbs | 333 lbs |
| 403425 - 8 Braid | Coil | 1-3/4" | | 92,200 lbs | 470 lbs |
| 403430 - 8 Braid | Coil | 2" | | 106,700 lbs | 591 lbs |
| 403437 - 8 Braid | Coil | 2-1/4" | | 143,100 lbs | 802 lbs |
| 403440 - 8 Braid | Coil | 2-1/2" | | 162,500 lbs | 898 lbs |
| 403342 - 8 Braid | Coil | 2-1/2" | | 162,500 lbs | 898 lbs |
| 403445 - 8 Braid | Coil | 2-5/8" | | 181,800 lbs | 1011 lbs |
| 403450 - 8 Braid | Coil | 3" | | 228,000 lbs | 1272 lbs |
| 403452 - 8 Braid | Coil | 3-1/4" | | 276,500 lbs | 1564 lbs |

BLUE STEEL™ Copolymer 12 STRAND

High strength coextrusion polyolefin yarns, 35% to 40% stronger than polypropylene, flexible non rotating construction, superior UV resistance over polypropylene, superior abrasion resistant, floats in water, excellent resistance to most common chemicals, rot and mildew, easily spliced.

| Item No. | Diameter | Length | Minimum Tensile | Approx. Wt./100 |
|----------|----------|--------|-----------------|-----------------|
| 353310 | 1/2" | 600' | 6,900 lbs | 5.4 lbs |
| 353320 | 5/8" | 600' | 12,000 lbs | 9.6 lbs |
| 353325 | 3/4" | 600' | 15,900 lbs | 12.5 lbs |
| 353328 | 7/8" | 600' | 21,200 lbs | 17 lbs |
| 353330 | 1" | 600' | 25,000 lbs | 19.4 lbs |
| 353334 | 1-1/8" | 600' | 33,500 lbs | 26.5 lbs |

*Sizes 1-1/4" through 2" also available by special order only.



Spectra® 12 STRAND

Very high strength synthetic rope with excellent abrasion resistant in a single braid construction. It comes standard with a polyurethane finish and is easily spliced using a lockstitch type splice, 4-3-2 or 5-4-3 tuck splice. It also has a low stretch, low creep, soft hand, is torque-free and it floats.

| Diameter | Minimum Tensile | Approx. Wt./100 |
|----------|-----------------|-----------------|
| 1/2" | 22,500 lbs | 6.4 lbs |
| 5/8" | 36,600 lbs | 10.6 lbs |
| 3/4" | 43,200 lbs | 13.3 lbs |
| 1" | 72,000 lbs | 23.4 lbs |
| 1-1/2" | 141,300 lbs | 51.7 lbs |
| 2" | 225,000 lbs | 91.4 lbs |
| 2-1/2" | 360,000 lbs | 148 lbs |

All other sizes are available.



Plasma® 12 STRAND

Highest strength synthetic rope available. It comes standard with a polyurethane finish and is easily spliced using a lockstitch type splice, 4-3-2 or 5-4-3 tuck splice. It also has the lowest stretch, low creep, soft hand, is torque-free and it floats.

| Diameter | Minimum Tensile | Approx. Wt./100 |
|----------|-----------------|-----------------|
| 1/2" | 31,300 lbs | 6.4 lbs |
| 5/8" | 51,400 lbs | 10.6 lbs |
| 3/4" | 68,500 lbs | 13.3 lbs |
| 1" | 110,000 lbs | 23.4 lbs |
| 1-1/2" | 221,000 lbs | 51.7 lbs |
| 2" | 355,000 lbs | 91.4 lbs |
| 2-1/2" | 530,000 lbs | 148 lbs |

All other sizes are available.



Braided 8 Strand



Super Dyna (100% Super High Strength Polyolefin Yarns) Ship Mooring Lines - "8" Braid Hawasers

Two times the wear life of polypropylene, 20% to 25% stronger than polypropylene, non torque construction, good UV resistance, abrasion resistance, floats in water, excellent resistance to most common chemicals, rot and mildew

| Item No. | Diameter | Length | Size | Min. Tensile | Approx. Wt. |
|----------|----------|--------|-------|--------------|-------------|
| 403647 | 2" | 720' | 50 mm | 64,000 lbs | 498 lbs |
| 403652 | 2-1/4" | 720' | 56 mm | 88,000 lbs | 660 lbs |
| 403655 | 2-1/2" | 720' | 60 mm | 100,000 lbs | 770 lbs |
| 403662 | 2-5/8" | 720' | 64 mm | 115,000 lbs | 864 lbs |
| 403665 | 3" | 720' | 72 mm | 146,000 lbs | 1102 lbs |
| 403670 | 3-1/4" | 720' | 80 mm | 175,000 lbs | 1398 lbs |
| 403675 | 4" | 720' | 96 mm | 240,000 lbs | 1960 lbs |

"8" Braid SUPER BLUE STEEL™ Poly

High strength coextrusion polyolefin yarns, 35% to 40% stronger than polypropylene, non torque construction, superior UV resistance over polypropylene, superior abrasion resistant, floats in water, excellent resistance to most common chemicals, rot and mildew.

| Item No. | Coil/ Reel | Diameter | Length | Average Tensile | Approx. Wt. |
|----------|------------|----------|--------|-----------------|-------------|
| 402118 | Coil | 1" | 600' | 26,400 lbs | 115 lbs |
| 402123 | Coil | 1-1/8" | 600' | 35,100 lbs | 158 lbs |
| 402130 | Coil | 1-1/4" | 600' | 38,100 lbs | 178 lbs |
| 402137 | Coil | 1-1/2" | 600' | 55,800 lbs | 318 lbs |
| 402143 | Reel | 1-5/8" | 600' | 68,700 lbs | 336 lbs |
| 402146 | Coil | 1-3/4" | 600' | 74,700 lbs | 393 lbs |
| 402147 | Reel | 1-3/4" | 600' | 74,700 lbs | 393 lbs |
| 402155 | Coil | 2" | 600' | 91,400 lbs | 481 lbs |
| 402156 | Reel | 2" | 600' | 91,400 lbs | 481 lbs |
| 402165 | Coil | 2-1/4" | 600' | 120,600 lbs | 651 lbs |
| 402166 | Reel | 2-1/4" | 600' | 120,600 lbs | 651 lbs |
| 402180 | Coil | 2-1/2" | 600' | 137,800 lbs | 747 lbs |
| 402181 | Reel | 2-1/2" | 600' | 137,800 lbs | 747 lbs |
| 402188 | Coil | 2-5/8" | 600' | 155,000 lbs | 846 lbs |
| 402200 | Coil | 3" | 600' | 197,100 lbs | 1068 lbs |
| 402210 | Coil | 3-1/4" | 600' | 238,800 lbs | 1320 lbs |
| 402225 | Coil | 4" | 600' | 338,800 lbs | 1887 lbs |



Nylon "8" Braid

High elongation and strength, good energy absorption, non torque construction good abrasion resistant, superior UV resistance, rot, mildew, oil, grease, gasoline and most common chemicals.

| Item No. | Diameter | Length | Average Tensile | Approx. Wt. |
|----------|----------|--------|-----------------|-------------|
| 409126 | 2" | 600' | 96,900 lbs | 636 lbs |
| 409131 | 2-5/8" | 600' | 163,800 lbs | 1086 lbs |
| 409136 | 3" | 600' | 209,800 lbs | 1422 lbs |
| 409138 | 3-1/4" | 600' | 248,800 lbs | 1728 lbs |
| 409145 | 4" | 600' | 356,400 lbs | 2520 lbs |