



# NYLON DOUBLE BRAID

NN REV 008  
15 SEP 06

Nylon Double Braid is the preferred choice for applications requiring high strength with excellent shock absorbing properties. Nylon Double Braid has good resistance to abrasion, sunlight and chemicals. Due to its high elongation, nylon is almost always used in applications involving shock loading such as anchor lines and mooring lines.

Nylon Double Braid comes standard with an overlay marine finish.

- High stretch
- High strength
- Excellent shock absorption
- Soft hand
- Torque free
- Meets MIL-DTL-24050E

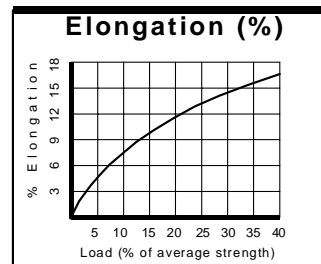
## Type Approved Product



| Nominal Diameter                |     | Size Number (circ) | Approximate Weight |         | Minimum Tensile Strength |        |
|---------------------------------|-----|--------------------|--------------------|---------|--------------------------|--------|
| Inch                            | MM  |                    | Lbs/100ft          | Kg/100m | Pounds                   | kN     |
| 1/4                             | 6   | 3/4                | 1.7                | 2.5     | 1,900                    | 8.5    |
| 5/16                            | 8   | 1                  | 2.6                | 3.9     | 2,900                    | 12.9   |
| 3/8                             | 9   | 1-1/8              | 3.7                | 5.5     | 4,200                    | 18.7   |
| 7/16                            | 11  | 1-1/4              | 5.1                | 7.6     | 5,700                    | 25.4   |
| 1/2                             | 12  | 1-1/2              | 6.6                | 9.8     | 7,400                    | 32.9   |
| 9/16                            | 14  | 1-3/4              | 9                  | 13.4    | 10,200                   | 45.4   |
| ABS AND DNV TYPE APPROVED SIZES |     |                    |                    |         |                          |        |
| 5/8                             | 16  | 2                  | 11.6               | 17.2    | 14,800                   | 65.8   |
| 3/4                             | 18  | 2-1/4              | 14.7               | 21.9    | 19,000                   | 84.5   |
| 7/8                             | 22  | 2-3/4              | 21.8               | 32.4    | 28,300                   | 125.9  |
| 1                               | 24  | 3                  | 26.0               | 38.7    | 33,500                   | 149.0  |
| 1-1/16                          | 26  | 3-1/4              | 31.0               | 46.1    | 39,000                   | 173.5  |
| 1-1/8                           | 28  | 3-1/2              | 35.4               | 52.7    | 44,900                   | 199.7  |
| 1-1/4                           | 30  | 3-3/4              | 40.7               | 60.6    | 52,300                   | 232.6  |
| 1-5/16                          | 32  | 4                  | 46.3               | 68.9    | 58,800                   | 261.6  |
| 1-1/2                           | 36  | 4-1/2              | 58.4               | 86.9    | 74,000                   | 329.2  |
| 1-5/8                           | 40  | 5                  | 72.3               | 107.6   | 92,400                   | 411.0  |
| 1-3/4                           | 44  | 5-1/2              | 87.7               | 130.5   | 110,900                  | 493.3  |
| 2                               | 48  | 6                  | 103.9              | 154.6   | 131,500                  | 584.9  |
| 2-1/8                           | 52  | 6-1/2              | 122.0              | 181.6   | 152,800                  | 679.7  |
| 2-1/4                           | 56  | 7                  | 141.2              | 210.1   | 181,000                  | 805.1  |
| 2-1/2                           | 60  | 7-1/2              | 162.6              | 242.0   | 201,000                  | 894.1  |
| 2-5/8                           | 64  | 8                  | 185.1              | 275.5   | 222,000                  | 987.5  |
| 2-3/4                           | 68  | 8-1/2              | 201.2              | 299.4   | 248,000                  | 1103.2 |
| 3                               | 72  | 9                  | 234.3              | 348.7   | 277,000                  | 1232.2 |
| 3-1/4                           | 80  | 10                 | 288.9              | 430.0   | 341,000                  | 1516.8 |
| 3-5/8                           | 88  | 11                 | 349.9              | 520.7   | 409,000                  | 1819.3 |
| 4                               | 96  | 12                 | 416.2              | 619.4   | 475,000                  | 2112.9 |
| 4-1/4                           | 104 | 13                 | 481.5              | 716.6   | 549,000                  | 2442.1 |

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. With extended immersion in water, all nylon ropes will lose up to 10% of their strength. Weights are calculated at linear density under standard preload (200d<sup>2</sup>) plus 7%. See reverse side for application and safety information.

Please note that the Minimum Tensile Strengths of Black Nylon Double Braid products are normally 10% below published specifications. Type Approval of Nylon Double Braid does not apply to Black Nylon Double Braid.



|                         |                  |
|-------------------------|------------------|
| Specific gravity        | 1.14*            |
| Melting point           | 414° F (212° C)* |
| Critical temp.          | 300° F (149° C)* |
| Coefficient of friction | 0.12 - 0.15*     |
| Elongation at break     | 30% - 35%        |
| Fiber water absorption  | 3% - 5%          |
| UV resistance           | good             |
| Wet abrasion            | excellent        |
| Dry abrasion            | excellent        |

\* - value based on data supplied by the fiber manufacturer for new, dry fiber



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