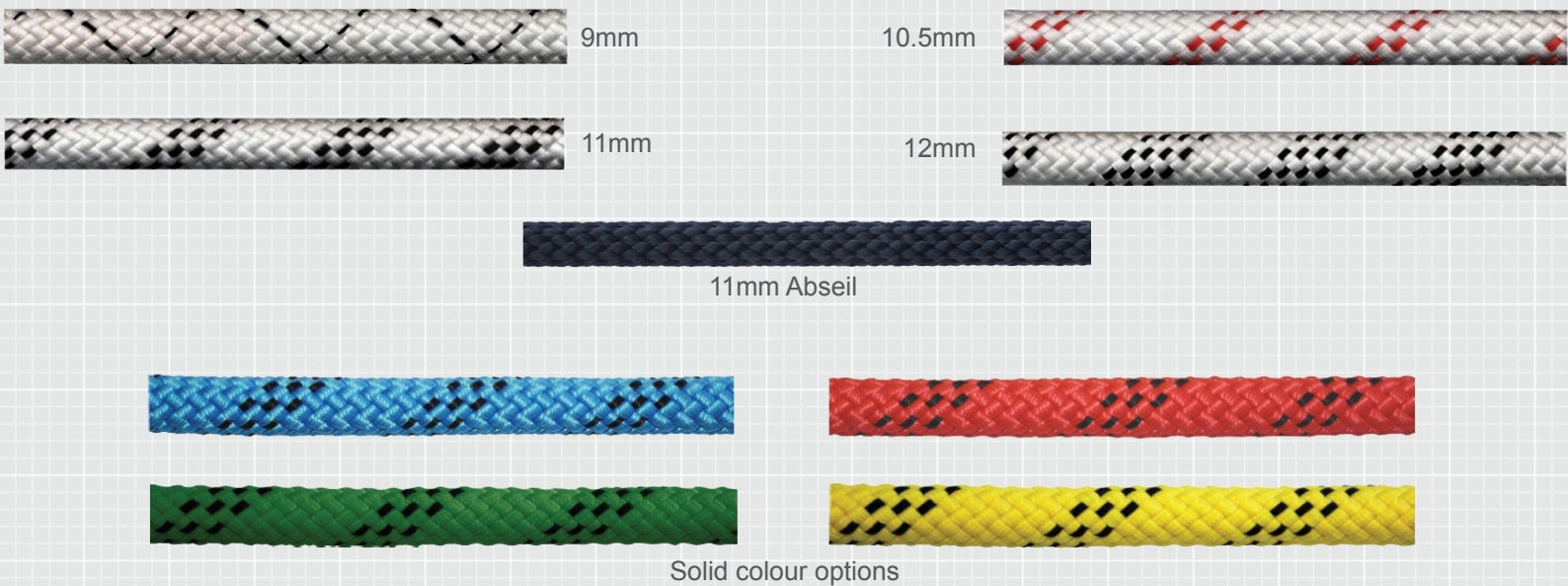


# Marlow<sup>®</sup> DATASHEET

## STATIC ROPES

Marlow Static ropes are high quality CE certified ropes for industrial access, work positioning, abseiling and caving.



### MATERIAL (9mm, 10.5mm, 11mm and 12mm Static)

|                        |                                 |
|------------------------|---------------------------------|
| <b>MATERIAL CORE:</b>  | High Tenacity Polyamide (Nylon) |
| <b>MATERIAL COVER:</b> | High Tenacity Polyamide (Nylon) |
| <b>CORE TYPE:</b>      | Multiple twisted cores          |
| <b>COVER TYPE:</b>     | 16 plait Braided (32 carrier)   |
| <b>CERTIFICATION:</b>  | EN 1891                         |

### MATERIAL (11mm Abseil)

|                        |                         |
|------------------------|-------------------------|
| <b>MATERIAL CORE:</b>  | High Tenacity Polyester |
| <b>MATERIAL COVER:</b> | High Tenacity Polyester |
| <b>CORE TYPE:</b>      | Multiple twisted cores  |
| <b>COVER TYPE:</b>     | 16 plait Braided        |
| <b>CERTIFICATION:</b>  | MR 10-81                |

**Note:** This rope is CE approved as an Abseil rope, it is not intended for use when dynamic loads (falls) may be encountered.

## CONSTRUCTION

### MANUFACTURED FROM HIGH TENACITY NYLON (NOT ABSEIL):

Light weight  
High strength  
High energy absorption  
Good resistance to most chemicals and UV  
Improved abrasion resistance  
Aids handling and works well with ascenders and descenders

### TWISTED FIBRE COVER CONSTRUCTION:

### SOLID COLOUR OPTIONS (11MM AND 12MM ONLY):

Easily identification of ropes in complex rigging or for different applications

### SOLID BLACK OPTION:

All ropes are available in black for military and police applications

## TERMINATIONS

### TERMINATION OPTIONS:

All Marlow's Static and Abseil ropes can be terminated with a figure of eight knot. All Static and Abseil ropes can be terminated by CE approved sewn eye, this is produced in Marlow's factory using the latest computer controlled sewing machinery. Each eye is individually serial numbered. In addition the 11mm Abseil rope can also be spliced and serial numbered by Marlow's splicing team.

## PERFORMANCE

| PROPERTY                                       | 9mm  | 10.5mm | 11mm | 12mm | 11mm POLYESTER ABSEILING |
|--|------|--------|------|------|--------------------------|
| Rope classification Type (A or B)              | B    | A      | A    | A    | N/A                      |
| Diameter (mm)                                  | 9.1  | 10.4   | 11   | 12   | 11                       |
| Sheath Slippage (%)                            | 0    | 0      | 0.4  | 0.2  | 1                        |
| 50-150kg elongation (%)                        | 3.3  | 2      | 2.4  | 1.9  | 1                        |
| Shrinkage (%)                                  | 4.5  | 5      | 4    | 4.3  | 0                        |
| Mass Core (g/m)                                | 28.5 | 34.7   | 40.6 | 56.8 | 45.1                     |
| Mass Cover (g/m)                               | 24.5 | 32.5   | 33.1 | 33.6 | 50.2                     |
| Mass Rope (g/m)                                | 53.0 | 67.2   | 73.8 | 90.3 | 95.4                     |
| Minimum Static Strength ex. terminations (kN)  | 18   | 22     | 22   | 22   | 22                       |
| Average Static Strength ex. terminations (kN)  | 25.4 | 33.4   | 35.3 | 42.8 | 30.8                     |
| Minimum Static Strength with terminations (kN) | 12   | 15     | 15   | 15   | 15                       |
| Average Static Strength with sewn eye (kN)     | 18.5 | 25.1   | 30.9 | 36.2 | 27.0                     |
| Average Static Strength with fig. 8 loop (kN)  | 13.7 | 19.5   | 21.1 | 24.3 | 19.0                     |
| Average Static Strength with spliced eye (kN)  | N/A  | N/A    | N/A  | N/A  | 22.6                     |
| Fall Factor 1 falls. Fig. 8 loop               | 6    | 10+    | 10+  | 10+  | 4                        |
| Fall Factor 1 falls, Spliced eye               | N/A  | N/A    | N/A  | N/A  | 15                       |
| Peak Force (kN). Fig 8 loop                    | 4.6  | 5.6    | 5.8  | 5.5  | 7.4                      |
| Peak Force (kN). Spliced eye                   | N/A  | N/A    | N/A  | N/A  | 8.3                      |

Marlow Ropes Ltd  
Ropemaker Park  
Hailsham  
East Sussex, BN27 3GU  
England

Marlow Ropes, Inc.  
Cordage Business Park  
Plymouth  
MA 02360  
USA

www.marlowropes.com  
UK: +44 (0) 1323 444 444  
sales@marlowropes.com  
US: +1 508 830 444  
salesusa@marlowropes.com

### Disclaimer

Marlow Ropes Ltd endeavours to ensure that all products are manufactured to the highest standard, these guidelines are not intended and do not create any warranties, express or implied. Marlow Ropes Ltd expressly disclaims warranties or representations of any kind, express or implied, including the implied warranties of merchantability and fitness for a particular purpose. Marlow Ropes Ltd shall not be liable for any consequential, incidental or contingent damages whatsoever stemming from the use of these guidelines. Marlow Ropes Ltd has a policy of continual improvement which may result in specification and colour changes without prior notice.



Certification Number 315

ISO 9001