

Marlow®

DATASHEET

STATIC ROPES

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



Solid colour options

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

MATERIAL CORE:	High Tenacity Polyamide (Nylon)
MATERIAL COVER:	High Tenacity Polyamide (Nylon)
CORE TYPE:	Multiple twisted cores
COVER TYPE:	16 plait Braided (32 carrier)
CERTIFICATION:	EN 1891

MATERIAL (11mm Aeris Static)

MATERIAL CORE:	High Tenacity Polyamide
MATERIAL COVER:	High Tenacity Polyamide
CORE TYPE:	Multiple twisted cores
COVER TYPE:	24 plait Braided
CERTIFICATION:	EN 1891 Type A

MATERIAL (11mm Abseil)

MATERIAL CORE:	High Tenacity Polyester
MATERIAL COVER:	High Tenacity Polyester
CORE TYPE:	Multiple twisted cores
COVER TYPE:	16 plait Braided
CERTIFICATION:	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 Aeris and the 11mm Abseil rope can also be spliced and serial numbered by Marlow's splicing team.



PERFORMANCE

PROPERTY	9MM	10.5MM	11MM	11MM AERIS	12MM	11MM POLYESTER ABSEILING
Rope classification Type (A or B)	B	A	A	A	A	N/A
Diameter (mm)	9.1	10.4	11	10.7	12	11
Sheath Slippage (%)	0	0	0.4	0	0.2	1
50-150kg elongation (%)	3.3	2	2.4	3	1.9	1
Shrinkage (%)	4.5	5	4	4	4.3	0
Mass Core (g/m)	28.5	34.7	40.6	38.8	56.8	45.1
Mass Cover (g/m)	24.5	32.5	33.1	37.2	33.6	50.2
Mass Rope (g/m)	53.0	67.2	73.8	75.9	90.3	95.4
Minimum Static Strength ex. terminations (kN)	18	22	22	22	22	22
Average Static Strength ex. terminations (kN)	25.4	33.4	35.3	35.1	42.8	30.8
Minimum Static Strength with terminations (kN)	12	15	15	15	15	15
Average Static Strength with sewn eye (kN)	18.5	25.1	30.9	29.2	36.2	27.0
Average Static Strength with fig. 8 loop (kN)	13.7	19.5	21.1	20.4	24.3	19.0
Average Static Strength with spliced eye (kN)	N/A	N/A	N/A	27.1	N/A	22.6
Fall Factor 1 falls. Fig. 8 loop	6	10+	10+	10+	10+	4
Fall Factor 1 falls, Spliced eye	N/A	N/A	N/A	10+	N/A	15
Peak Force (kN). Fig 8 loop	4.6	5.6	5.8	5.7	5.5	7.4
Peak Force (kN). Spliced eye	N/A	N/A	N/A	5.9	N/A	8.3

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