

DYNALINE MAX 78 AND 99

Marlow's Dynaline Max takes the wire rope replacement concept of Dynaline a stage further by adding Marlow's "Max" super pre-stretching process. Dynaline Max offers much higher strength than a standard Marlow Winch Line rope. The higher break load for a given diameter offers a higher factor of safety or the possibilty to down size the rope, therby allowing a longer length to be fitted on the winch.



APPLICATIONS

MATERIAL

MANUFACTURED FROM DYNEEMA:

Winching

HMPE (High-Modulus Polyethylene)

Very light weight - 8x lighter than steel wire for a given strength High strength - 70% stronger than steel wire for a given diameter

Low stretch - see graph below

Good resistance to chemicals and UV

Zero water shrinkage Low creep HMPE fibre

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION:

12 STRAND BRAIDED CONSTRUCTION:

Improved abrasion resistance

Optimised pitch to yarn twist - improves strength & longevity

Firmer rounder rope, aids handling

Easy to splice

Flexible product and easily handled

Torque balanced

Maximises strength/diameter ratio

Minimises elongation

HEAT SET AND PRE-STRETCHED:

COATING OPTIONS

MARLOW ARMOURCOAT:

Specially formulated polyurethane coating Improves abrasion resistance and durability

Increases friction, aids handling & splicing

Provides colour coding (black as standard, other colour options

available on request)

PROPERTIES

RELATIVE DENSITY:

CHEMICAL RESISTANCE:

UV RESISTANCE:

MELTING POINT:

CRITICAL TEMPERATURE:

0.97 (floats)

Excellent resistance to most chemicals (additional information

available on request)

Very good

140°C

80°C (exposure to temperatures over this will result in permanent

strength loss)

TERMINATIONS

SPLICED EYE **TERMINATION:** 12 strand splice

An allowance of 60x rope diameter should be made for the overall length of the splice. To optimise the efficiency of a soft eye splice (without a thimble), the angle formed at the neck of the splice should be 30° or less, meaning that when flat, the length of the eye must be 2.7x the diameter of the object over which the splice will be used.

In a sling configuration, attention must be paid to the distance between the two splices. For optimum strength realisation, Marlow recommend the minimum distance between splices of 35x rope diameter.

A splice will normally increase the diameter of the rope between 1.5x and 1.75x.

N.B. KNOTS WILL SIGNIFICANTLY REDUCE THE STRENGTH OF ANY ROPE. THIS PRODUCT WILL TYPICALLY RETAIN APPROXIMATELY 30% OF ITS STRENGTH IF TERMINATED WITH A KNOT. THE EXACT FIGURE WILL DEPEND ON THE TYPE OF KNOT USED AND OTHER FACTORS.

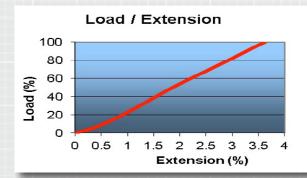
ELONGATION

Permanent elongation on first loading: Up to 5%

Typical working elongation (for a bedded in rope):

@ 10% of break load: 0.51% @ 20% of break load: 0.89%

To break: 3.60%



DYNALINE MAX SK78

DIAMETER		MASS		AVERAGE SPLICED STRENGTH			MIN SPLICED STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
5	3/16	15.6	1.05	3200	7050	31.4	2980	6560	29.2
6	7/32	22.3	1.50	4570	10100	44.8	4250	9380	41.7
7	1/4	35.6	2.39	7510	16600	73.7	6980	15400	68.5
8	5/16	44.5	2.98	9390	20700	92.1	8730	19200	85.6
9	3/8	54.0	3.62	10800	23800	106	10000	22100	98.1
10	13/32	63.0	4.22	12600	27800	124	11700	25800	115
11	7/16	75.5	5.06	15100	33300	148	14100	31000	138
12	15/32	90.0	6.04	18000	39700	177	16700	36900	164
13	1/2	107	7.18	21100	46600	207	19700	43400	193
15	9/16	134	8.99	26400	58300	259	24600	54200	241
17	11/16	184	12.3	32900	72400	323	30600	67400	300

DYNALINE MAX SK99

DIAMETER		MASS		AVERAGE STRENGTH			MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
5	3/16	15.6	1.05	3810	8380	37.4	3500	7710	34.4
6	7/32	22.3	1.50	5440	12000	53.4	5010	11000	49.1
7	1/4	35.6	2.39	8940	19700	87.7	8220	18100	80.7
8	5/16	44.5	2.98	11200	24600	110	10300	22600	101
9	3/8	54.0	3.62	12500	27500	123	11500	25300	113
10	13/32	63.0	4.22	14600	32100	143	13400	29600	132
11	7/16	75.5	5.06	17500	38600	172	16100	35500	158
12	15/32	90.0	6.04	20900	45900	205	19200	42200	188
13	1/2	107	7.18	24500	54000	241	22600	49600	221
15	9/16	134	8.99	30700	67500	301	28200	62100	277
17	11/16	184	12.34	38100	83800	374	35100	77100	344

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