

Marlow®

DATASHEET



KITELINE*Race*

KITELINE*Race* utilises Dyneema SK99 and is available in 1.3mm and 1.5mm diameter. While maintaining the breakload of 270kg on the 1.3mm and 360kg for the 1.5mm the thinner than normal diameter improves kite performance especially in light winds.

KITELINE*Freestyle*

KITELINE*Freestyle* utilises Dyneema Sk78 and is available in 1.8mm diameter. It has a 455kg break load for improved safety and longevity.

Applications:

Kitelines

Material:

KITELINE*Race* Dyneema SK99

KITELINE*Freestyle* Dyneema SK78

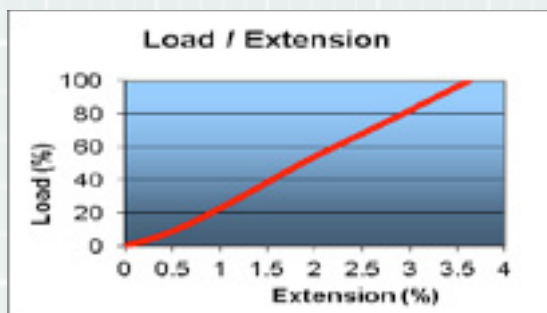
- HMPE (High Modulus Polyethylene)
- Very light-weight - more than 8 x lighter than steel wire for a given strength
- High strength - 80% stronger than steel wire for a given weight
- Low stretch - see table below
- Good resistance to chemicals and UV
- Zero water shrinkage

Construction:

KITELINE*Race* (1.3mm) and KITELINE*Freestyle* 12 strand braided construction

KITELINE*Race* (1.5mm) 16 strand braided construction

- Improved abrasion
- Optimised pitch to yarn twist - improves strength & longevity
- Firmer rounder rope, aids handling (NB.- KITELINE*Race* 1.3mm and KITELINE*Freestyle* 1.8mm ONLY)
- Easy to splice
- Flexible product and easily handled
- Torque balanced



Typical working elongation (for bedded in rope)

- @10% of break load 0.51%
- @20% of breakload 0.89%
- to break 3.60%

Physical Properties:

- Relative Density 0.97 exact figure varies with diameter
- Chemical Resistance Excellent resistance to most chemicals (additional information available)
- UV Resistance Good
- Melting Point 140°C
- Critical temperature 80°C (exposure to temperatures over this will result in permanent strength loss)

Terminations:

Spliced eye termination N/A

DIAMETER		MASS		AVERAGE STRENGTH			MINIMUM STRENGTH		
mm	inch	g/m	lb/100ft	kg	lb	kN	kg	lb	kN
1.3	3/64	1.4	0.09	270	594	2.6	243	535	2.4
1.5	1/16	1.8	0.12	360	792	3.5	324	713	3.2
1.8	5/64	2.4	0.16	455	1001	4.5	410	901	4.0

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